NOVEMBER/DECEMBER 2023

CCA43/CSCS43/CESC63C — WIRELESS DATA COMMUNICATIONS

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Name any two forums and their purposes.

2. Define the term Internetwork.

3. What is handoff in cellular Technology?

4. Distinguish multimode step-index and graded-index propagation.

5. What is the purpose of the hamming code?

6. How does a router differ from a bridge?

7. Write the global goal of WLANs.

8. State any two merits and demerits of radio transmission.

9. Mention the usage of HTTP.

10. Expand : DNS and DHCP.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain Three Data communication network criteria.

Or

(b) Discuss the functions of physical layer.

12. (a) Narrate the different types of Transmission impairment.

Or

(b) Describe the components of a fibre-optic cable and write its advantages.

13. (a) Enumerate the steps involved in creating a check sum.

Or

(b) Illustrate the distance vector routing algorithm.

14. (a) Write short note on infrared versus radio transmission.

Or

(b) Summarize the various services of WATM.

15. (a) Explicate the divisions of the Domain Name Space.

Or

(b) Describe the significance of Digital Signature.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Expound the basic network topologies.

17. Discuss in detail about the unguided media.

18. Explicate the concept of circuit switching.

19. Illustrate the architecture of Bluetooth.

20. Elucidate the importance of the TCP/IP transport layer protocol.

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